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Submitted herewith for filing under 35 U.S.C. 111 and 37 C.F.R. 1.53 is the patent application of:

DE M. LEGLISE and THOMAS C. MILLER

For: REMOTELY MANAGING AND CONTROLLING A CONSUMER APPLIANCE

Enclosed are:


- ☒ Certificate of Mailing with Express Mail Mailing Label No. EL541982806US
- ☒ Ten (10) sheets of drawings.
- ☐ A certified copy of a application.
- ☒ Declaration ☒ Signed. ☐ Unsigned.
- ☒ Power of Attorney
- ☐ Information Disclosure Statement
- ☐ Preliminary Amendment
- ☒ Other: Recordation Form Cover Sheet; Assignment and check for \$40.

CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	35	- 20 =	15	x \$18.00	\$270.00
Indep. Claims	6	- 3 =	3	x \$78.00	\$234.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$690.00
TOTAL FILING FEE					\$1,194.00

- ☒ A check in the amount of \$1,194.00 to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. 20-1504 as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of as filing fee.
- ☒ Credit any overpayment.
- ☒ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
- ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

Dated: May 31, 2000


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APPLICATION

FOR

UNITED STATES LETTERS PATENT

TITLE: REMOTELY MANAGING AND CONTROLLING A
CONSUMER APPLIANCE

INVENTORS: CLAUDE M. LEGLISE and THOMAS C. MILLER

Express Mail No.: EL541982806US

Date: May 31, 2000

REMOTELY MANAGING AND CONTROLLING A CONSUMER APPLIANCE

Background

This invention relates generally to consumer appliances in the form of processor-based systems.

Consumers may prefer an appliance-like functionality when using conventional processor-based systems such as computer systems. For example, conventional processor-based systems such as desktop computer systems initially undergo a boot up process. In contrast, appliances are immediately available and immediately responsive. Thus, there is a demand for processor-based systems, particularly for home users, that implement a wide variety of computer functions in an appliance-like fashion. For example, telephone, Internet and e-mail access may all be implemented in an appliance-like processor-based system.

The increasing prevalence of processor-based systems in the home opens the opportunity for targeted home-based marketing. That is, vendors may attempt to directly contact consumers in their homes with targeted advertisements. For example, some entities now steer particular information to consumers based on databases containing information about those consumers. These databases contain information about what types of products the consumer is interested in based on the consumer's on-

line activities. In this way, based on the consumer's indicated interest, advertising may be targeted to receptive consumers.

5 However, there is a continuing need for better ways to utilize home processor-based systems to increase marketing effectiveness.

Brief Description of the Drawings

Figure 1 is a schematic depiction of one embodiment of the present invention;

10 Figure 1A is a conceptual depiction of one embodiment of the present invention;

Figure 2 is a graphical user interface in accordance with one embodiment of the present invention;

15 Figure 3 is a graphical user interface in accordance with another embodiment of the present invention;

Figure 4 is a graphical user interface in accordance with still another embodiment of the present invention;

Figure 5 is a graphical user interface in accordance with another embodiment of the present invention;

20 Figure 6 is a graphical user interface in accordance with another embodiment of the present invention;

Figure 7 is a graphical user interface in accordance with another embodiment of the present invention;

25 Figure 8 is a graphical user interface in accordance with another embodiment of the present invention;

Figure 9 is a graphical user interface in accordance with another embodiment of the present invention;

Figure 10 is a flow chart for software for setting up a client processor-based system in accordance with one
5 embodiment of the present invention;

Figure 11 is a flow chart for software for setting up a server in accordance with one embodiment of the present invention;

Figure 12 is a flow chart for software resident on the
10 client for implementing one embodiment of the present invention;

Figure 13 is a perspective view of an appliance in accordance with one embodiment of the present invention; and

Figure 14 is block depiction of the embodiment of the
15 present invention shown in Figure 12.

Detailed Description

Through interaction between a service provider and a retail vendor, a processor-based system at a customer's
20 home or other location may be advantageously operated to facilitate the interests of the customer and the retail vendor. The customer may be asked to provide information to the service provider, who is independent from the retail vendor, to customize the options afforded to the customer
25 on the customer's processor-based system. The service provider provides Internet services to the customer on

behalf of the retail vendor. In return for those services, the customer is requested to first receive content related to the products or services of the retail vendor before accessing the Internet services from the service provider.

5 Thus, the service provider may provide a series of graphical user interfaces which include content related to the retail vendor such as advertisements and in addition obtains information from the customer to further customize the options made available to the customer. By simplifying
10 each graphical user interface to a limited number of selections, the ease of use of the interface may be greatly facilitated.

 In this way, the retail vendor is afforded a preferred link to an individual customer. The customer receives
15 simple-to-use Internet services and access to customized information related to the retail vendor. In some cases, the service provider may be able to provide the customer with a processor-based system at a reduced cost.

 Referring to Figure 1, a system 10 for remotely
20 managing and controlling a plurality of consumer appliances, such as the client system 12, includes a service provider 16 and one or more web servers 18 coupled over the Internet 14. A consumer may use the home-based client system 12. The service provider 16 in the form of a
25 server processor-based system may control the system 10 in accordance with one embodiment of the present invention.

Each web server 18 may be associated with a different retail vendor. As used herein, a retail vendor is an entity that provides products or services to consumers. Each retail vendor may arrange for a service provider 16 to provide remote management and control of a number of client systems 12 in accordance with one embodiment of the present invention.

Referring to Figure 1A, the service provider 16 may provide a large number of consumers 13 with personalized service 11 through a client system 12. This personalized service 11 may be provided by obtaining information from the consumer 13 about the consumer's preferences. Based on that information, the service provider 16 can provide information to the consumer 13 that is modified or tailored to reflect that consumer's preferences.

At the same time, the consumer 13 may allow the service provider 16 to control the consumer's client system 12. This control may include providing user interfaces that provide targeted information about a particular retail vendor. Moreover, the control may limit the options that the consumer must consider. Therefore, a relatively close association may be achieved between a retail vendor 19 and a consumer 13 as a result of the services provided by the service provider 16. Ideally, the service provider 16 may develop a close relationship between the retail vendor 19 and a plurality of consumers 13 by providing personalized,

dedicated service to each consumer 13 through his or her client system 12.

Under appropriate privacy guidelines, the consumer 13 may provide information to a secure service provider 16 that utilizes the information to provide dedicated information and services to the consumer. The information and services may be customized in accordance with the customer's preferences received by the service provider 16 in confidence. In one embodiment of the present invention, this information may not be provided to the retail vendor 19. Instead, the retail vendor 19 uses the service provider 16 as a proxy to provide the dedicated services. The consumer 13, who may have a high degree of confidence in the service provider 16, may feel secure that the information provided to the service provider 16 will not be misused.

At the same time, the service provider 16 may provide similar, but separately customized services, for any number of retail vendors 19. Each of those vendors 19 may operate a web site using a web server 18 and each of those vendors may provide different services and products to consumers 13.

In one embodiment of the present invention, the service provider 16 controls the information displayed on the client system 12 and provides Internet and e-mail services as well. Thus, the service provider 16 acts as

the Internet service provider for the client system 12. At the same time, the service provider 16 may provide targeted information to the client system 12 on behalf of a particular retail vendor 19.

5 In some embodiments, the retail vendor 19 may support the acquisition of the client system 12 by the consumer 13. For example, the consumer 13 may be afforded an advantageous price for the client system 12 as a result of the association with the retail vendor 19. In some cases
10 this arrangement may enable consumers, who would otherwise be unwilling to incur the costs associated with obtaining and maintaining a client system 12, to acquire such systems.

 As a result of the services provided by the service
15 provider 16, the consumer 13 may implement sales transactions "S" either directly with the retail vendor 19 or through the service provider 16. Ultimately, from the retail vendor's point of view, the consumer 13 receives that information and level of service that the consumer
20 expects and in return the consumer consummates sales transactions with the retail vendor 19.

 Turning next to Figure 2, an exemplary graphical user interface 20 supported by the client system 12 may be sponsored by a retail vendor 19, such as Brick & Mortar
25 Retailers, Inc. as indicated at 22. In fact, the interface 20 may be provided by the service provider 16 on behalf of

the retail vendor 19. The interface 20 may appear upon power up and booting of the client system 12. The interface 20 may pose a request to a particular user who responds by entering his or her name, for example by mouse clicking on an appropriate icon 26. The service provider 16 may already be aware of the family members of a particular family. However, it may be useful, in each case, to know which particular family member is logging onto the system 10. This facilitates the targeting of information not only for a particular family but also to particular members of the family. In the illustrated example, the father, Paul, has clicked on the icon 26a using the mouse cursor 28.

The interface 30 is displayed, as shown in Figure 3, in response to Paul's input. The interface 30 is customized to the preferences of the user named Paul as indicated at 32. The user is then asked to choose a selection as indicated at 34. Potential user selections may be displayed as an icon 36a for making a purchase, an icon 36b for requesting information, icon 36c for viewing a catalog, an icon 36d for using a store locator or an icon 36e for selecting an unlisted choice. Selection of any of the icons 36a, 36b, 36c or 36d may automatically send the consumer to the retail vendor's web site served by a web server 18. The interface 30 may also provide a help button 38.

In addition, targeted advertising such as banner advertising 39 may be provided on the interface 30. Knowing that Paul has logged on and knowing the particular family, the system 10 may provide advertising that is
5 targeted to the active user. Since the system 10 knows that Paul has purchased tools in the past, Paul may be advised by a banner advertisement 39 of a special on tools. The system 10 may know the family circumstances, spending habits, available credit and other information. The
10 available information may be compiled to select advertising that most fits the needs and interests of the active user.

In the embodiment illustrated in Figure 3, the system 10 is dedicated to the purposes of a retail vendor 19. Thus, the icons 36 primarily offer information pertinent to
15 that retail vendor 19. If the user wishes to obtain information not related to the retail vendor 19, the user must select the other icon 36e to obtain the interface 40 shown in Figure 4.

From the interface 40, the user can select an icon 44a
20 to access a particular Internet site, an icon 44b to conduct an Internet search, an icon 44c to receive e-mail and an icon 44d to send e-mail. Each of the icons 44 is intended to provide a specific and clear function, making the use of the client system 12 appliance-like in its
25 simplicity.

By reducing the number of options, the service provider 16 can provide better control over the user's experience and may provide simplicity at the same time. Again, advertising 46 may be provided through the interface 40. Knowing the circumstances of the particular user, the advertising may be either customized to a user or selected to be of the greatest interest to the user.

As illustrated in Figures 2 through 4, the client system 12 is effectively controlled by the service provider 16 and software on the client system 12. The user is not free to immediately select any Internet site but instead must peruse a series of interfaces 20 and 30, controlled by the system 10, to reach the "other" interface 40. Thus, at least initially, the system 10 controls what information may be viewed and how the user interacts with the client system 12.

Referring next to Figure 5, selection of the help button 38 (Figure 3) generates the interface 50 in accordance with one embodiment of the present invention. The user may be asked, through the interface 50, to indicate a selection. The user may report a client system 12 problem by selecting the icon 54a. When the user selects the icon 54a, a report may be provided to the service provider 16 about the problem. A dedicated port may be provided to the client system 12 so that the service provider 16 may diagnose the problem.

Ideally, the service provider 16 may remotely manage the client system 12 to overcome the problem. In some embodiments of the present invention, the service provider 16 is responsible for maintaining the client system 12 in working order. As a result, the service provider 16 may control the user's ability to add additional hardware or software to the client system 12. This ensures that the client system 12 runs as intended and reduces the possibility of unexpected software or hardware problems.

By clicking on the icon 54b, the user may receive guidance on how to use the various graphical user interfaces. In addition, the user may be offered an opportunity to alter some system settings as indicated in icon 54c. However, in one embodiment of the present invention, the user may alter backgrounds, type fonts and the like. However, the user can not alter the content of the interfaces that are controlled by the service provider 16. That is, in order to access information (and in fact to use the system 10), in one embodiment of the present invention, the user must progress through a series of graphical user interfaces dictated by the service provider 16 and its interaction with the client system 12. As in the case of the interfaces 20, 30 and 40, the interface 50 may also include a targeted advertisement 56.

When the user selects the access the Internet site icon 44a (Figure 4), the graphical user interface 60, shown

the intended users of the client system 12 (block 1062).
The client system 12 generates a set up graphical user
interface for each named user as indicated in block 1064.
Thereafter, the client system 12 iterates through each user
5 to request user preferences as indicated in block 1066.

In one embodiment of the present invention, the first
user to use the client system 12 may be asked to provide
the preferences for the other users. Alternatively, as
each user logs on, that user may be asked to enter his or
10 her own preferences in order to gain access to the services
provided by the service provider 16.

In one embodiment of the present invention, the client
system 12 forwards the preferences to the service provider
16 as indicated in block 1067. This may be done by
15 creating a link to the service provider 16 over the
Internet 14. Alternatively, the information may be
forwarded over a back channel such as a telephone link.
For example, the telephone link may be through a one eight
hundred number so that the call does not in any way effect
20 the consumer's telephone bill.

Once the preferences have been forwarded to the
service provider 16, the client system 12 may receive
graphical user interfaces for each user based on his or her
preference indications, as indicated in block 1068. In
25 other embodiments of the present invention, the graphical
user interfaces may be resident on the client system 12.

The client system 12 also receives a user code for correlating user activities to each particular user as indicated in block 1069. User activities include the gamut of activities that the user may undertake on the system 12.

A log of each item that was selected by the particular user may be compiled. This information, correlated to the user's code and to a client system 12 code, may be provided at appropriate intervals to the service provider 16. This information may be further utilized for a variety of purposes including improving the targeting of advertising materials for each particular user.

On the service provider 16 side, the software 1170, shown in Figure 11, is responsible for initiating a particular user. The service provider 16 may receive the user's name, the client system 12 identifier and the user's preferences as indicated in block 1172. This information may be stored on a storage 15 (Figure 1) in accordance with one embodiment of the present invention. A database may also be consulted to select the appropriate user modifications based on the preferences provided by the particular user of the client system 12, as indicated in block 1174.

In one embodiment of the present invention, a preset series of survey style questions are posed. Based on the user's responses, the most appropriate set of modifications may be selected. A table may be stored in the storage 15

that correlates survey question responses to particular characteristics. These characteristics then may be tied to particular advertising or service based content which may be pushed to the client system 12 in one embodiment of the present invention.

Once the appropriate modifications have been determined at the service provider 16, those modifications may be assigned to a particular user. The appropriate graphical user interfaces and a user code may then be forwarded from the service provider 16 to the client system 12 as indicated in block 1176. Those modifications, graphical user interfaces and client identifiers may be stored on an appropriate storage on the client system 12.

The software 1280 is resident on the client system 12, in accordance with one embodiment of the present invention shown in Figure 12. The software 1280 may begin, as indicated in block 1281 by displaying the setup graphical user interface 20. The client system 12 receives a user selection of one of the icons 26 to identify the active user, as indicated in diamond 1282. Once the user is identified, the user's preferences may be accessed as indicated in block 1283. The ensuing graphical user interfaces may be modified in accordance with those preferences as indicated in block 1284. These modifications may be developed by the client system 12 or,

alternatively, may be downloaded from the service provider 16.

A user selection may be received through the graphical user interface 30, shown in Figure 3, as indicated by diamond 1285 in Figure 12. The particular selection may be utilized to access the user preferences (block 1286). In addition, an activity graphical user interface (such as the interfaces shown in Figures 2 through 9) for the user may be modified as indicated in block 1287. Each of these activities may be implemented either using software resident on the client system 12 or based on downloads from the service provider 16. In addition, each activity undertaken by a particular user on the system may be recorded and forwarded to the service provider 16 for analysis. As a result of that analysis, the customization for a particular user may be further refined.

An example of the client system 12, shown in Figure 13, may have a unitary housing including a base 1306 and a monitor 1302. A keyboard 1310 may be stored in a slot 1312 in the base 1306. As a result, the system 12 has an appliance-like, compact appearance. A display 1308 may be utilized to display the various graphical user interfaces. In one embodiment of the present invention, a telephone 1304 may be provided which may be operable through the client system 12.

In one embodiment, the client system 12 may include a processor 1400 coupled to a bridge 1402, as shown in Figure 14. The bridge 1402 provides an interface between a graphics controller 1406, a bus 1408 and the system memory 1404. The graphics controller 1406 may be coupled to the display 1308. A bus 1410 may be coupled to the bridge 1402. The bus 1410 may include slots that may connect to peripheral devices (not shown). The bus 1410 also is coupled to another bridge 1412. The bridge 1412 is coupled to a hard disk drive 1414 and another bus 1416. The hard disk drive 1414 may store the software 1060 and 1280 in accordance with one embodiment of the present invention.

The bus 1416 may be coupled to a serial input/output (SIO) device 1418 and a basic input/output system (BIOS) memory 1424. The SIO device 1418 may couple the keyboard 1310 and a modem 1420 that provides access to a phone line. The modem 1420 may be utilized in one embodiment of the present invention to gain access to the Internet 14.

While the present invention has been described with respect to a limited number of embodiments, those skilled in the art will appreciate numerous modifications and variations therefrom. It is intended that the appended claims cover all such modifications and variations as fall within the true spirit and scope of this present invention.

What is claimed is:

1 4. The method of claim 3 including providing
2 confidential information to said service provider instead
3 of said retail vendor.

1 5. The method of claim 3 including providing the
2 customer with a predefined set of selections.

1 6. The method of claim 1 including enabling said
2 service provider to provide remote maintenance for said
3 processor-based system and to control the software and
4 hardware added to said system.

1 7. The method of claim 1 further including providing
2 advertising based on the customer's preferences.

1 8. The method of claim 1 including receiving
2 information about the customer's preferences on said
3 processor-based system coupled to said service provider
4 over the Internet, forwarding said customer preferences to
5 said service provider, causing said service provider to
6 customize the content to be provided to the customer based
7 on said information and forwarding said customized content
8 to said processor-based system.

1 9. The method of claim 1 including automatically
2 directing said customer to a server associated with said

3 retail vendor when said customer wishes to obtain a product
4 or service offered by said retail vendor.

1 10. The method of claim 1 including requiring the
2 customer to view at least two graphical user interfaces
3 including advertising related to said retail vendor before
4 accessing said Internet services.

1 11. An article comprising a medium storing
2 instructions that enable a processor-based system to:
3 provide Internet services to a customer through a
4 service provider on behalf of a retail vendor;

5 provide said services through graphical user
6 interfaces provided by said service provider that include
7 content related to products or services of said retail
8 vendor;

9 prevent the customer from accessing said Internet
10 services from said service provider without receiving said
11 content related to products or services of said retail
12 vendor;

13 receive information about a customer's
14 preferences; and

15 customize the content provided to the customer
16 based on said information.

1 12. The article of claim 11 further storing
2 instructions that enable the processor-based system to
3 obtain the identity of the customer and customize the
4 information provided to the customer based on the
5 customer's identity.

1 13. The article of claim 11 further storing
2 instructions that enable the processor-based system to
3 control the first and the second graphical user interfaces
4 displayed after booting of said system.

1 14. The article of claim 13 further storing
2 instructions that enable the processor-based system to
3 provide confidential information to said service provider
4 instead of said retail vendor.

1 15. The article of claim 13 further storing
2 instructions that enable the processor-based system to
3 provide the customer with a predefined set of selections.

1 16. The article of claim 11 further storing
2 instructions that enable the processor-based system to
3 enable said service provider to provide remote maintenance
4 for said processor-based system and to control the software
5 and hardware added to said system.

1 24. The system of claim 23 wherein said storage
2 further stores instructions that enable said system to
3 control the initial two graphical user interfaces displayed
4 on said system after booting.

1 25. The system of claim 24 wherein said storage
2 further stores instructions that enable said system to
3 prevent the initial two graphical user interfaces from
4 being changed.

1 26. The system of claim 21 including an interface for
2 coupling said system to a server over the Internet, and
3 said storage further storing instructions that enable said
4 system to receive said preferences, forward said
5 preferences over the Internet to said server and receive
6 customized content from said server over the Internet.

1 27. The system of claim 21 including a unitary
2 housing and a display, said display being mounted in said
3 unitary housing, said unitary housing further storing said
4 processor and said storage.

1 28. A method comprising:
2 providing Internet services to a customer on
3 behalf of a retail vendor through a client processor-based
4 system;

5 providing graphical user interfaces that include
6 content related to products or services of said retail
7 vendor;
8 preventing the customer from accessing said
9 Internet services without receiving said content related to
10 products or services of said retail vendor;
11 receiving information about the customer's
12 preferences from the client processor-based system; and
13 customizing the content provided to the client
14 processor-based system based on said information.

1 29. The method of claim 28 including providing remote
2 maintenance for said client processor-based system.

1 30. The method of claim 29 including controlling the
2 software and hardware added to said system remotely.

1 31. An article comprising a medium storing
2 instructions that enable a server to:
3 provide Internet services to a client on behalf
4 of a retail vendor;
5 provide said services through graphical user
6 interfaces from said server that include content related to
7 products or services of said retail vendor;

8 prevent the client from accessing said Internet
9 services without receiving said content related to products
10 or services of said retail vendor; and

11 enable said server to receive customer preferences
12 from said client and customize content displayed on said
13 client based on said customer preferences.

1 32. The article of claim 31 further storing
2 instructions that enable the server to provide customized
3 advertising to said client based on preferences received
4 from said client.

1 33. A server connectable to a client, said server
2 comprising:

3 a processor;

4 a storage coupled to said processor;

5 an interface to the Internet; and

6 instructions stored on said storage that enable
7 the server to provide Internet services to the client on
8 behalf of a retail vendor; provide said services through
9 graphical user interfaces from said server that include
10 content related to products or services of said retail
11 vendor; prevent the client from accessing said Internet
12 services without receiving said content related to products
13 or services of said retail vendor; and enable said server
14 to receive customer preferences from said client and

15 customize the content displayed on said client based on
16 said customer preferences.

1 34. The system of claim 33 wherein customized
2 advertising is provided to said client based on the
3 preferences received from said client.

1 35. The system of claim 34 including storing in said
2 storage information about the activities undertaken by the
3 customer on said client.

REMOTELY MANAGING AND CONTROLLING A CONSUMER APPLIANCE

Abstract of the Disclosure

A processor-based system utilized by a consumer may be controlled and managed by a service provider for the benefit of a retail vendor. The service provider may control the content that is displayed on the client system. For example, the service provider may control the initial sets of graphical user interfaces that are provided to enable the consumer to make service selections. In addition, the consumer may be asked for information that enables the system to customize subsequent information provided to the consumer. As a result, the consumer's processor-based system may be remotely managed and controlled to facilitate communications between a particular retail vendor and a consumer.

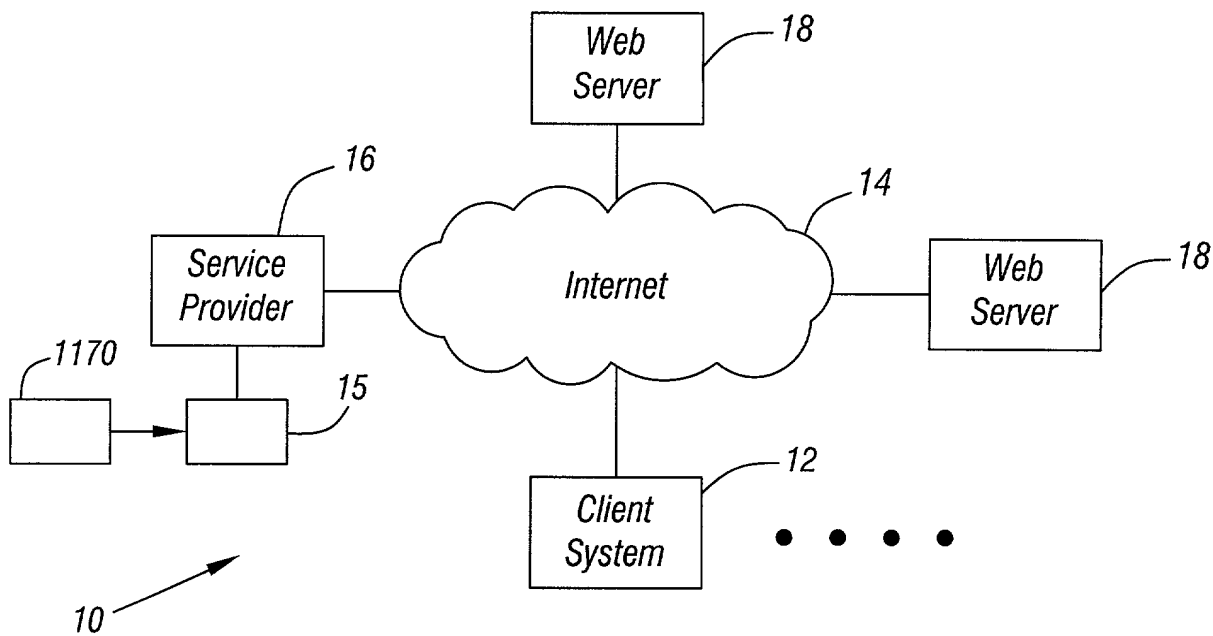


FIG. 1

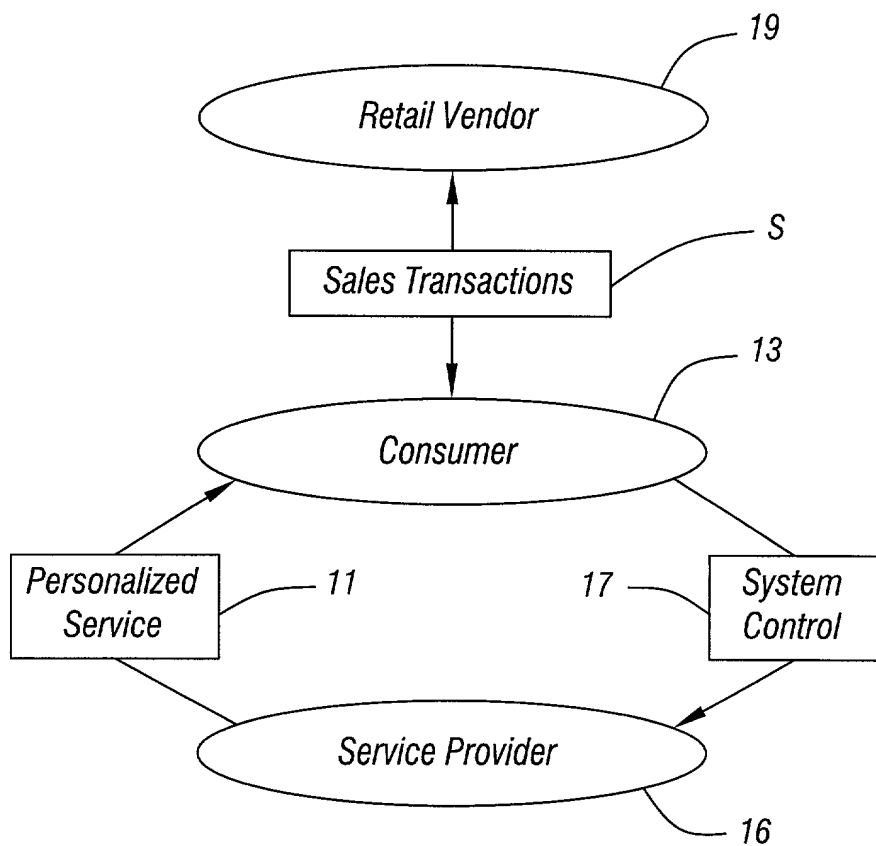


FIG. 1A

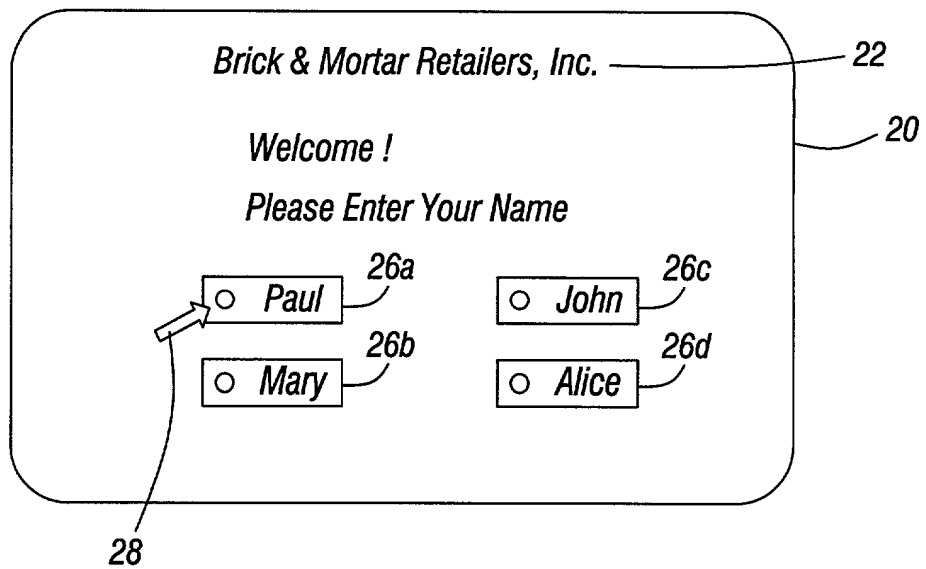


FIG. 2

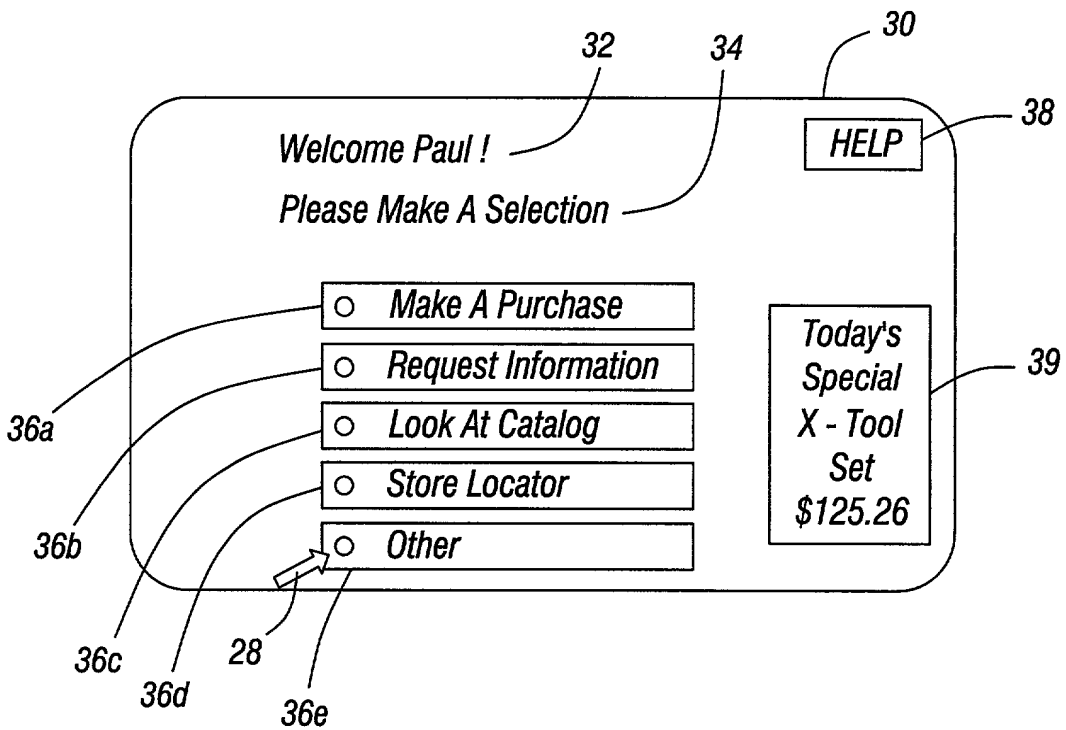


FIG. 3

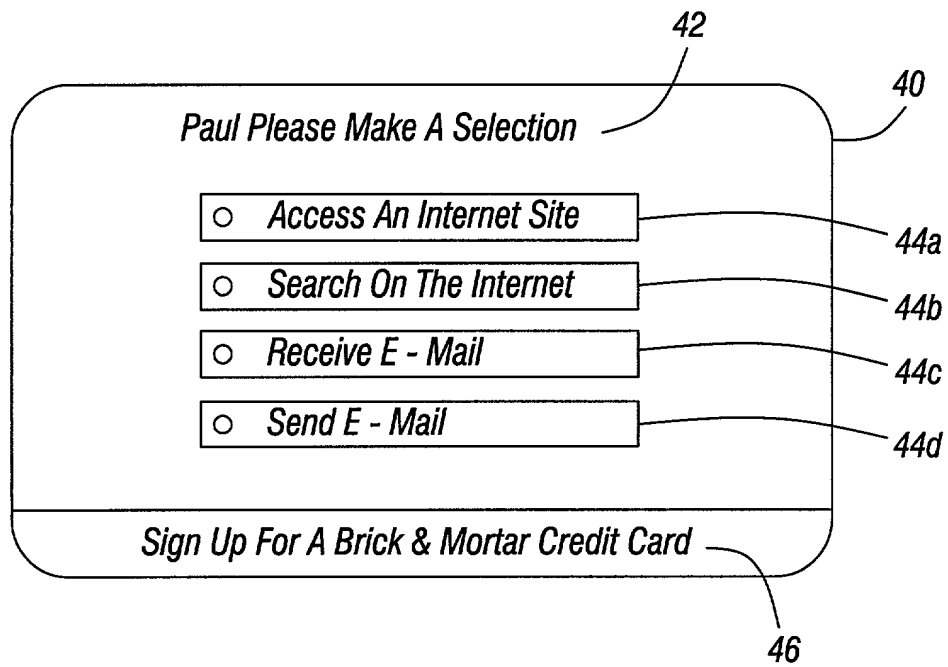


FIG. 4

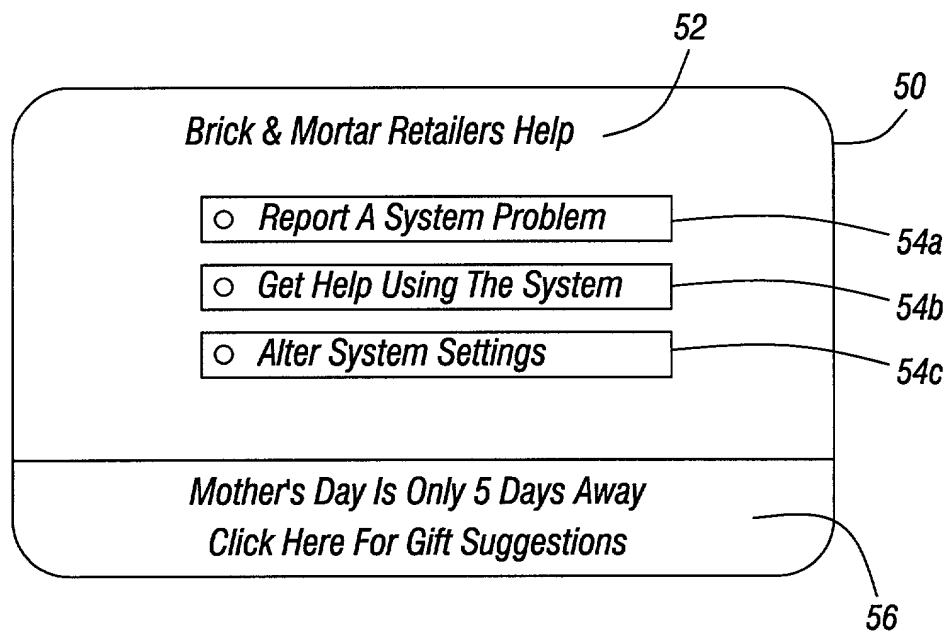


FIG. 5

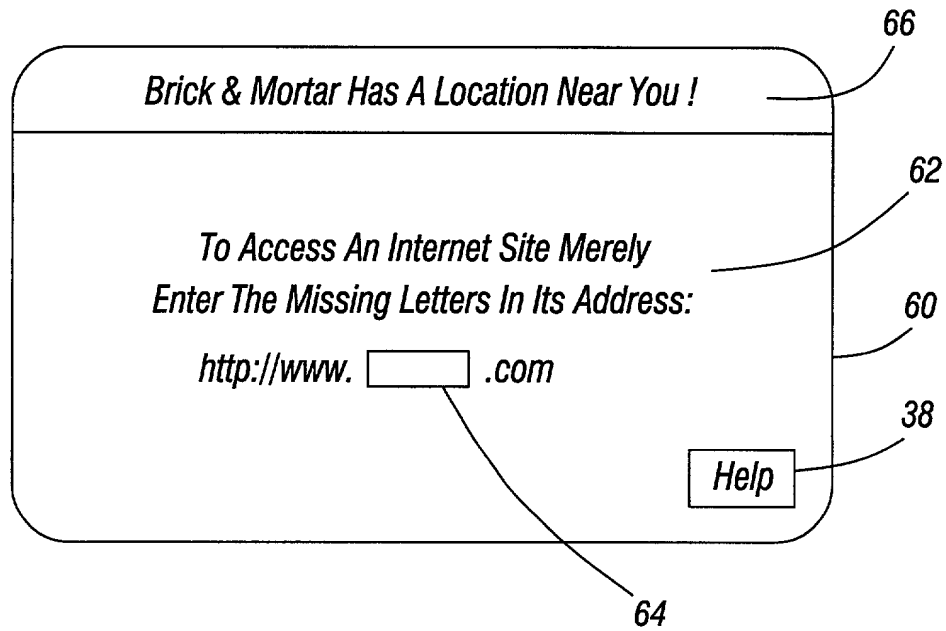


FIG. 6

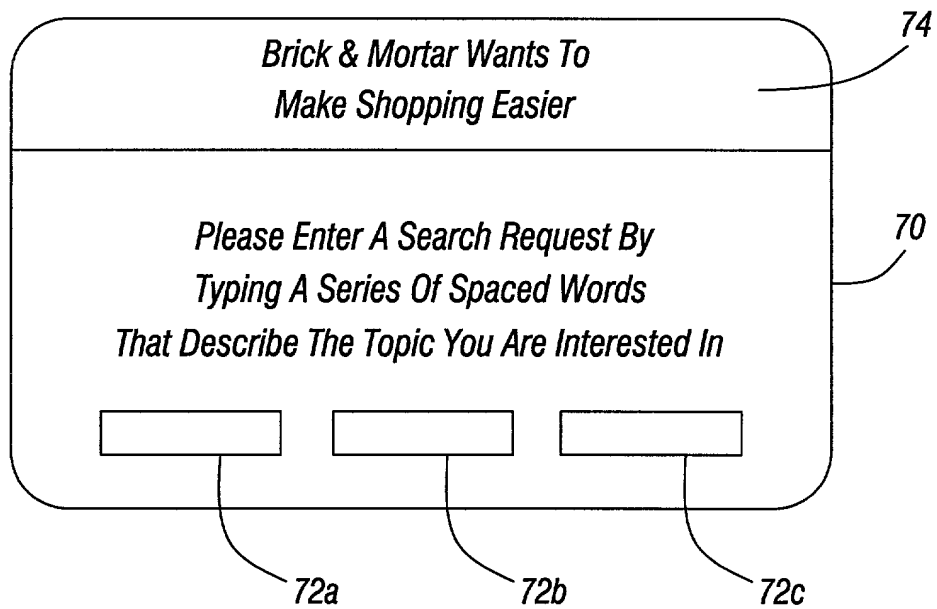


FIG. 7

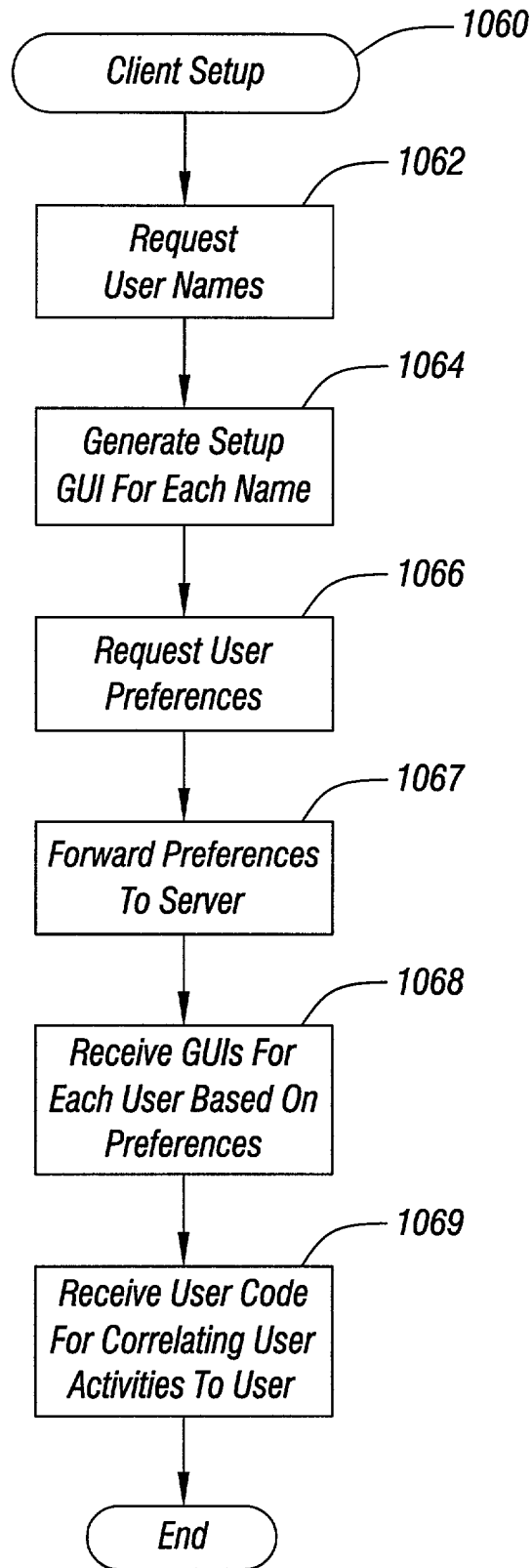


FIG. 10

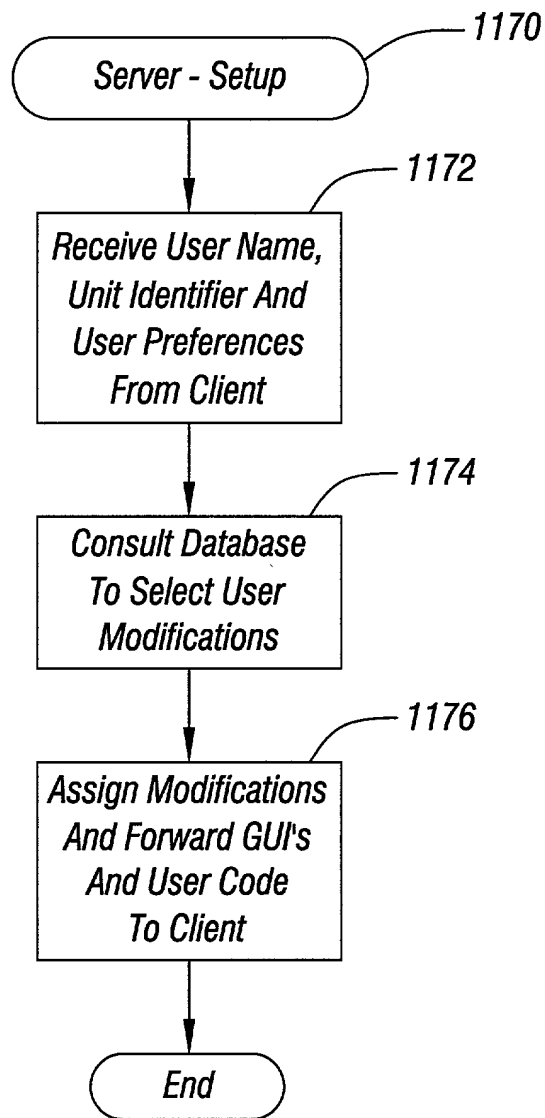


FIG. 11

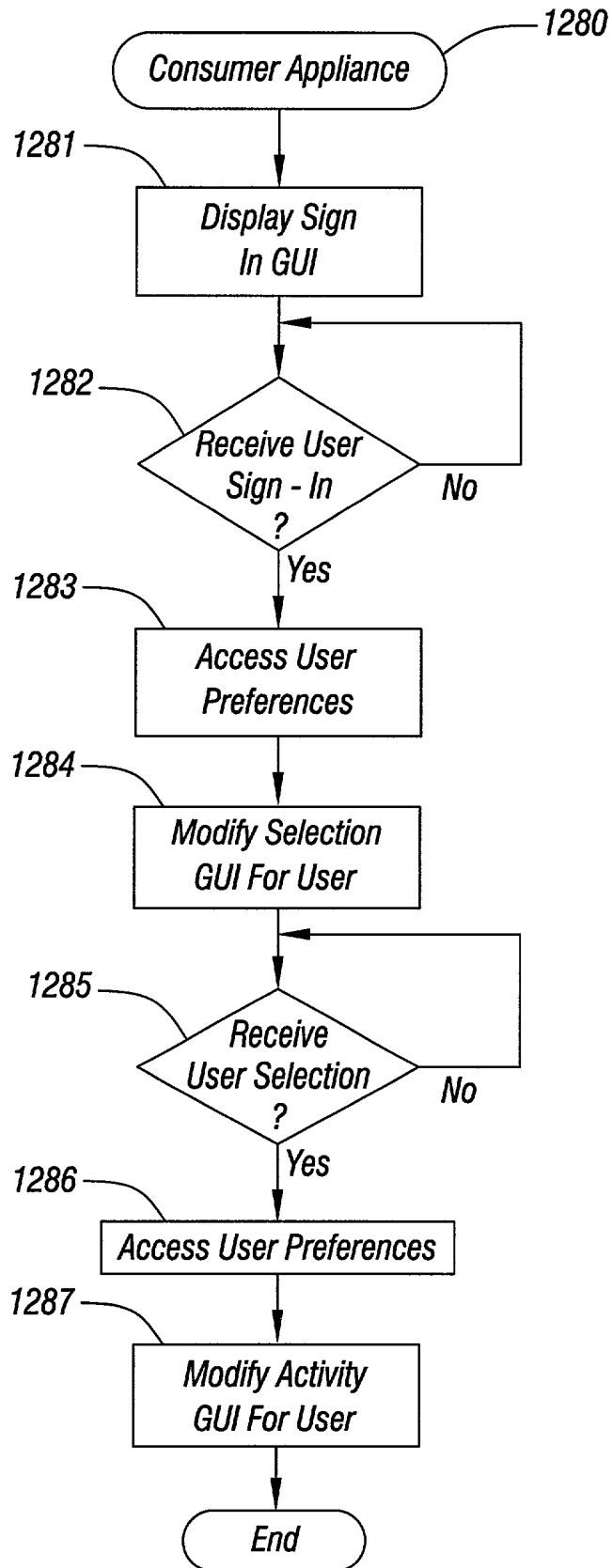


FIG. 12

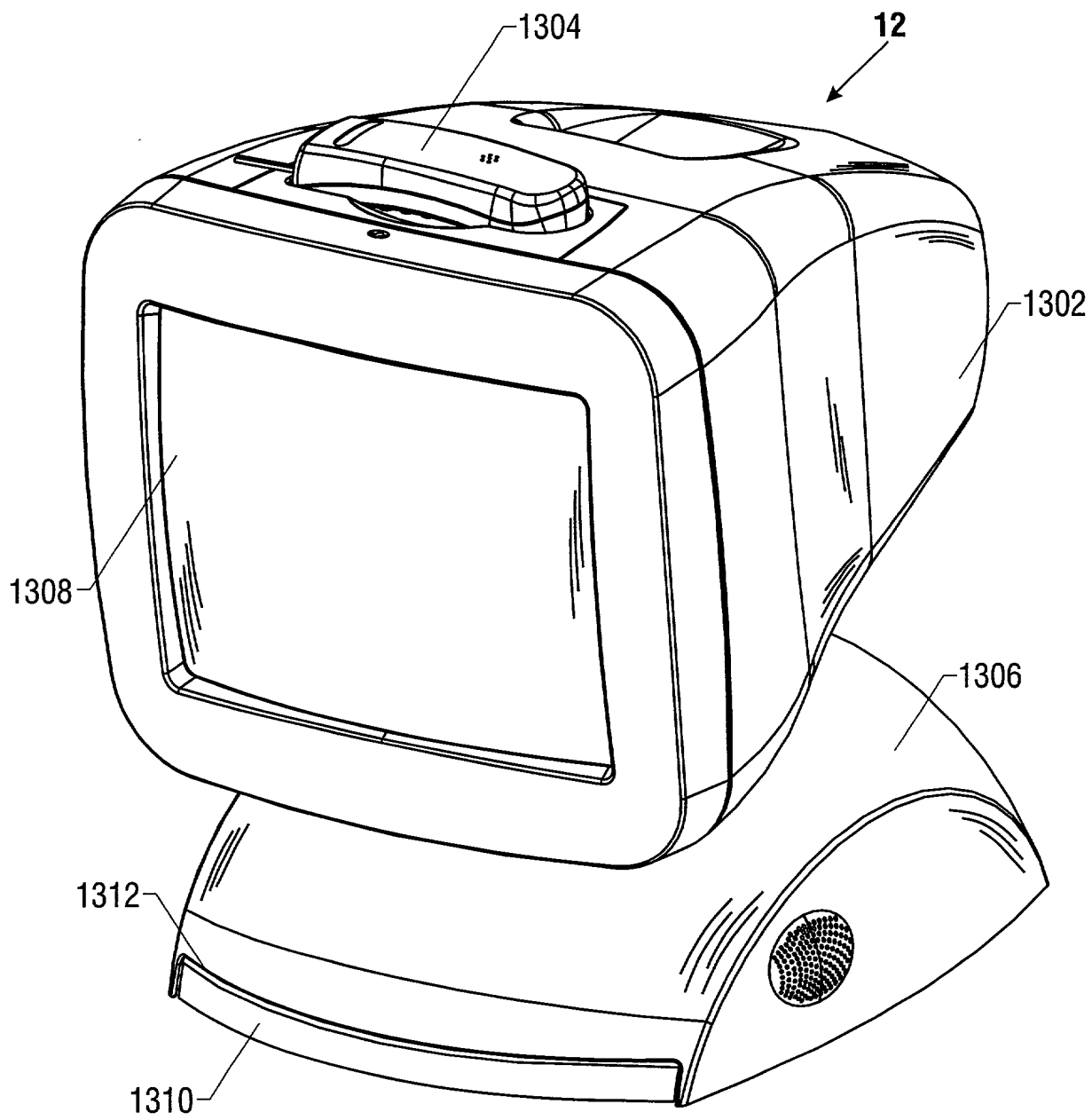


FIGURE 13

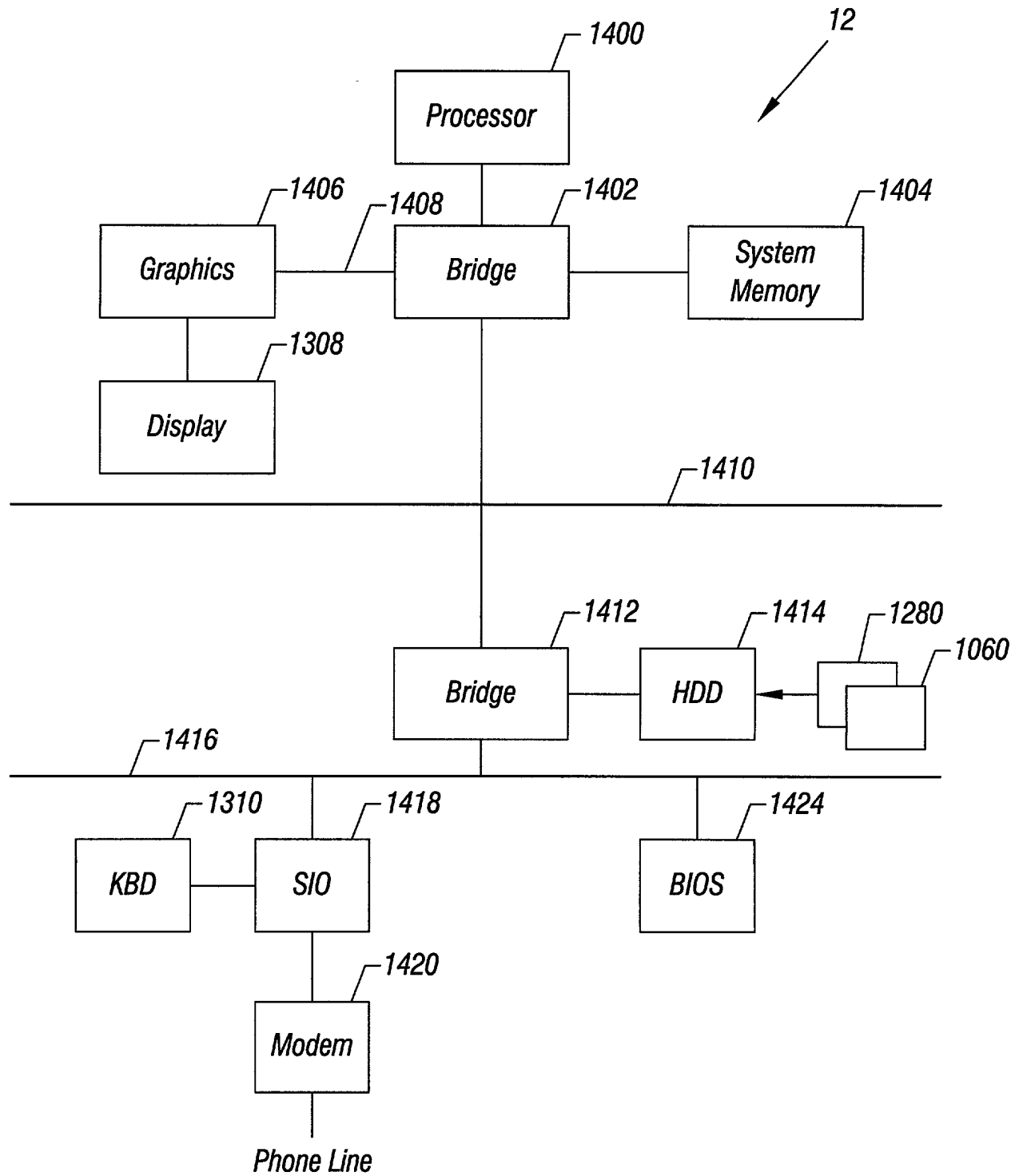


FIG. 14

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below, next to my name.

I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

REMOTELY MANAGING AND CONTROLLING A CONSUMER APPLIANCE

the specification of which

X	is attached hereto.
	was filed on _____ as
	United States Application Number _____
	or PCT International Application Number _____
	and was amended on _____
	(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above. I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application, that the same was not in public use or on sale in the United States of America more than one year prior to this application, and that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d), of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s):			Priority Claimed	
Number	(Country)	(Day/Month/Year Filed)	Yes	No
Number	(Country)	(Day/Month/Year Filed)	Yes	No
Number	(Country)	(Day/Month/Year Filed)	Yes	No

I hereby claim the benefit under title 35, United States Code, Section 119(e) of the United States provisional application(s) listed below:

_____ (Application Number)	_____ (Filing Date)
_____ (Application Number)	_____ (Filing Date)

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

_____ (Application Number)	_____ Filing Date	_____ (Status-patented, pending, abandoned)
_____ (Application Number)	_____ Filing Date	_____ (Status-patented, pending, abandoned)

I hereby appoint Timothy N. Trop, Reg. No. 28,994; Fred G. Pruner, Jr., Reg. No. 40,779 and Dan C. Hu, Reg. No. 40,025 my patent attorneys, of TROP, PRUNER & HU, P.C., with offices located at 8554 Katy Freeway, Ste. 100, Houston, TX 77024, telephone (713) 468-8880, and Joseph R. Bond, Reg. No. 36,458; Richard C. Calderwood, Reg. No. 35,468; Sean Fitzgerald, Reg. No. 32,027; David J. Kaplan, Reg. No. 41,105; Leo V. Novakoski, Reg. No. 37,198; Naomi Obinata, Reg. No. 39,320; Thomas C. Reynolds, Reg. No. 32,488; Steven P. Skabrat, Reg. No. 36,279; Howard A. Skaist, Reg. No. 36,008; Steven C. Stewart, Reg. No. 33,555; Raymond J. Werner, Reg. No. 34,752; and Charles K. Young, Reg. No. 39,425; my patent attorneys, of INTEL CORPORATION; with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Send correspondence to Timothy N. Trop, TROP, PRUNER & HU, P.C., 8554 Katy Freeway, Ste. 100, Houston, TX 77024 and direct telephone calls to Timothy N. Trop, (713) 468-8880.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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